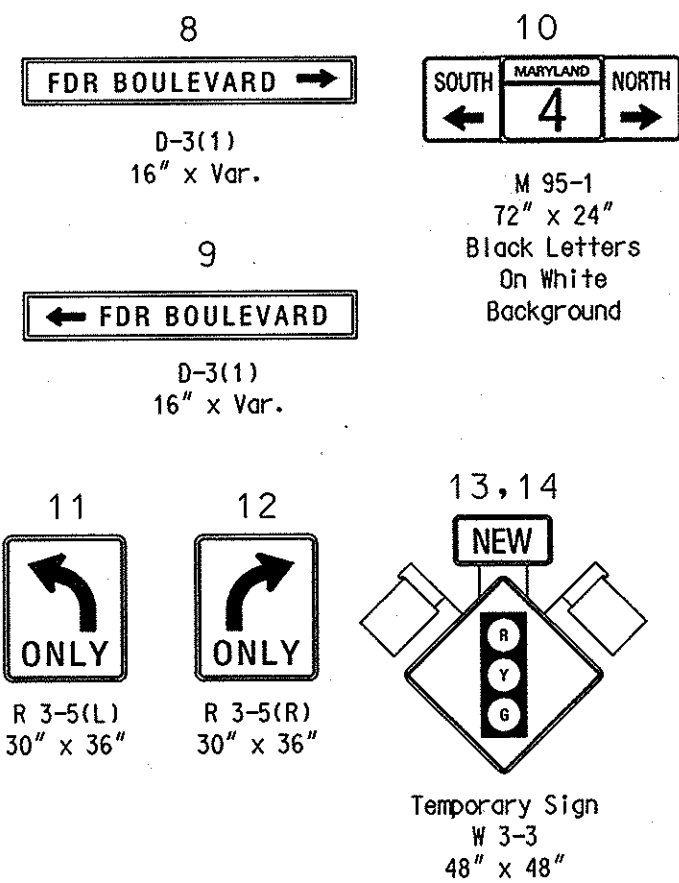
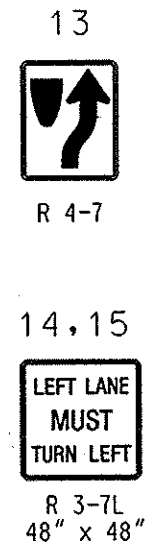


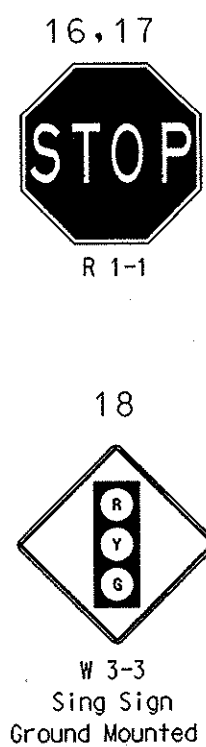
PROPOSED SIGNS



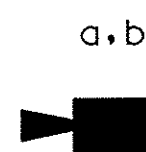
EXISTING SIGN



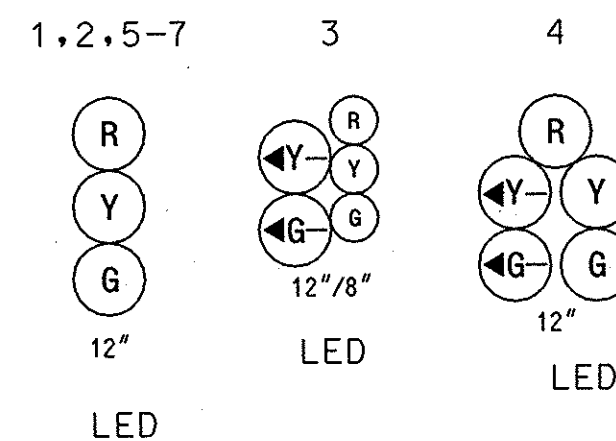
EXISTING SIGNS TO BE REMOVED



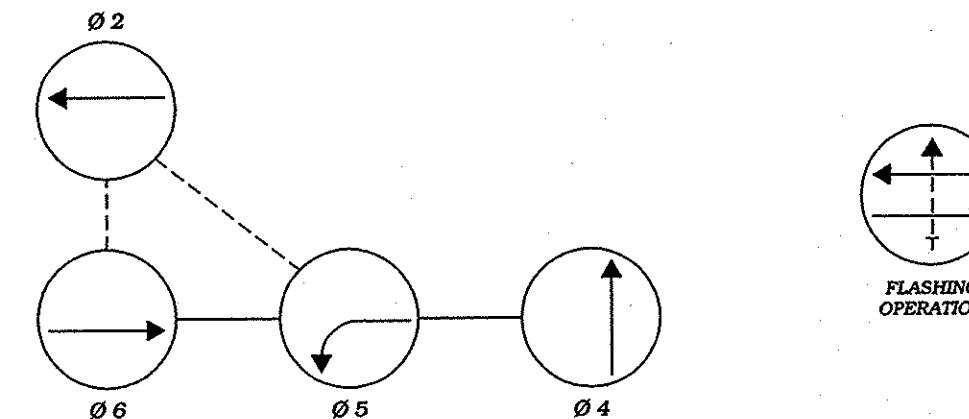
PROPOSED CAMERAS



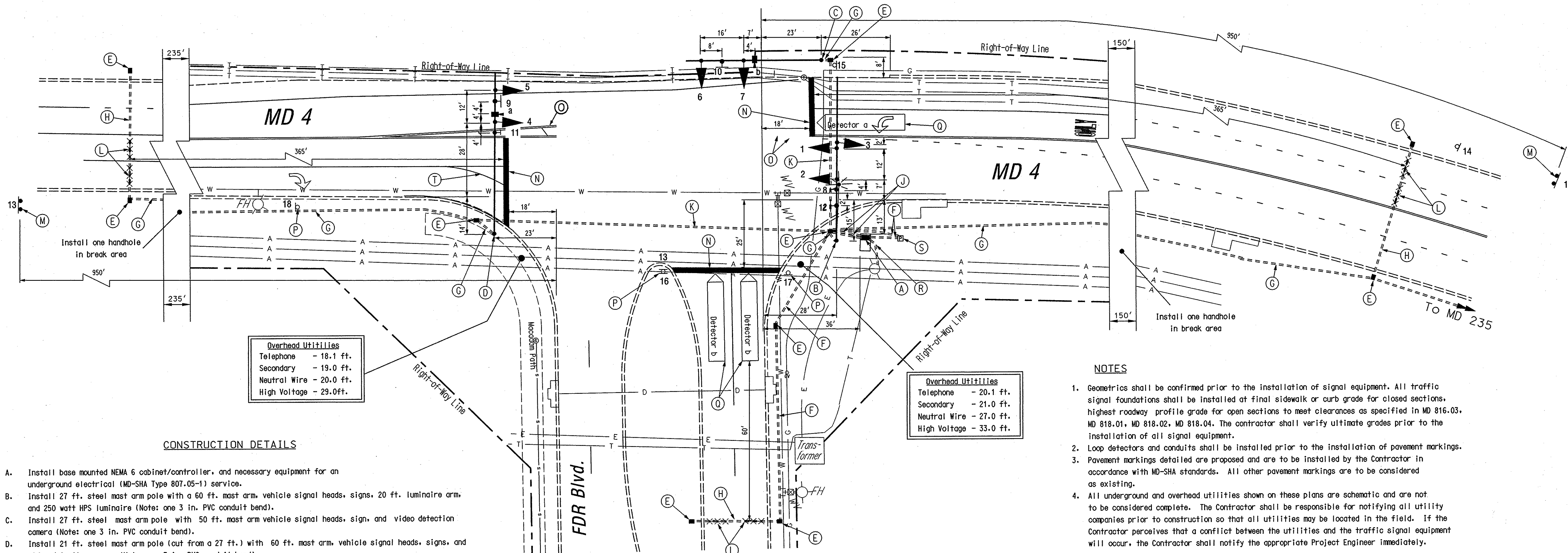
PROPOSED SIGNALS



PROPOSED NEMA PHASING



NEMA notes:
Phases associated by a dashed line will operate concurrently.
Phases associated by a solid line will not operate concurrently.
Phase 5 operates as a lagging left turn.



CONSTRUCTION DETAILS

- Install base mounted NEMA 6 cabinet/controller, and necessary equipment for an underground electrical (MD-SHA Type 807.05-1) service.
- Install 27 ft. steel mast arm pole with a 60 ft. mast arm, vehicle signal heads, signs, 20 ft. luminaire arm, and 250 watt HPS luminaire (Note: one 3 in. PVC conduit bend).
- Install 27 ft. steel mast arm pole with 50 ft. mast arm vehicle signal heads, sign, and video detection camera (Note: one 3 in. PVC conduit bend).
- Install 21 ft. steel mast arm pole (cut from a 27 ft.) with 60 ft. mast arm, vehicle signal heads, signs, and video detection camera (Note: one 3 in. PVC conduit bend).
- Install handhole.
- Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
- Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
- Install Non-Invasive micro-loop probes (set of 3).
- Install ground mounted sign as shown.
- Install 24 in. wide pavement marking - white for stop line.
- Remove existing pavement markings by grinding.
- Remove existing ground mounted sign.
- Camera zone.
- Install 2 in. conduit for phone drop.
- Install underground electrical service per MD-SHA Typical (807.05-01).
- Install 5 in. white solid pavement marking.

NOTES

- Geometrics shall be confirmed prior to the installation of signal equipment. All traffic signal foundations shall be installed at final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02, MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
- Loop detectors and conduits shall be installed prior to the installation of pavement markings.
- Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with MD-SHA standards. All other pavement markings are to be considered as existing.
- All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

G - GAS MAIN
W - WATER MAIN
S - SEWER MAIN
E - ELECTRIC CABLES
D - STORM DRAIN
A - AERIAL CABLES
T - TELEPHONE CABLES



REVISIONS

APPROVALS

Walter A. Hinkle 3/13/06
TRAFFIC ENGINEERING DESIGN DIVISION
Mickey Ruck 3-14-06
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
Wanda Ruck 2/14/06
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
2/26/06
DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)
MD 4 at FDR Boulevard

DRAWN BY: Frank Hoeckel
CHECKED BY: ECB
SCALE: 1" = 20'
DATE: March 2, 2006

F.A.P. NO. N/A
S.H.A. NO. BW996M82
COUNTY: St. Mary's
LOG MILE: 18000405.85

TS NO. 4465
T.I.M.S. NO. H-464

SHEET NO. 1 OF 3